

5040



PCT10

## RAW SEQUENCE LISTING

DATE: 02/08/2002

PATENT APPLICATION: US/10/031,685

TIME: 11:54:05

Input Set : A:\2488-1-002 SEQLIST.TXT

Output Set: N:\CRF3\02082002\J031685.raw

ENTERED

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4 <110> APPLICANT: Nuttall, Patricia Anne
5   Paesen, Guido Christiaan
7 <120> TITLE OF INVENTION: Inhibitor Proteins
10 <130> FILE REFERENCE: 2488-1-002
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/031,685
C--> 12 <141> CURRENT FILING DATE: 2002-01-22
12 <150> PRIOR APPLICATION NUMBER: PCT/GB00/02791
13 <151> PRIOR FILING DATE: 2000-07-19
15 <150> PRIOR APPLICATION NUMBER: GB 9916913.8
16 <151> PRIOR FILING DATE: 1999-07-19
18 <160> NUMBER OF SEQ ID NOS: 10
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 490
24 <212> TYPE: DNA
25 <213> ORGANISM: Rhicephalus appendiculatus
27 <400> SEQUENCE: 1
28 gaaacctcat gggccgcact accctaatacg tcgccatcgt gctggtggct ttcggttgc 60
29 gcacactagg aaatgcctac cctaaagtgg aagaaagacg taacaggcct aattgggatt 120
30 ttgggaaaag gaaagaagag tgtaccgttc ctattggtg gagcgaacca gtaaaagggc 180
31 tttgcaaggc tagatttact aggtattact gcatggggaa ctgttgcaag gtatacgaag 240
32 gctgctacac aggaggctat tccagaatgg gtgaatgctc gagaaattgt cccggcttca 300
33 aaagaccgac accagggttc agaccacggc acggactaga gaacggaaca gagcctggac 360
34 cttgaaacct cagataataa ttctccgaag acctcgatta tttcaccatg aggcggtttt 420
35 tttttccaca ataaaagcgg acaaggagaa catacatcat actgaaataa aataagaaac 480
36 caaaaaaaaaa 490
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 118
40 <212> TYPE: PRT
41 <213> ORGANISM: Rhicephalus appendiculatus
43 <400> SEQUENCE: 2
44 Met Gly Arg Thr Thr Leu Ile Val Ala Ile Val Leu Val Ala Phe Val
45 1 5 10 15
46 Ala Ser Thr Leu Gly Asn Ala Tyr Pro Lys Val Glu Glu Arg Arg Asn
47 20 25 30
48 Arg Pro Asn Trp Asp Phe Gly Lys Arg Lys Glu Glu Cys Thr Val Pro
49 35 40 45
50 Ile Gly Trp Ser Glu Pro Val Lys Gly Leu Cys Lys Ala Arg Phe Thr
51 50 55 60
52 Arg Tyr Tyr Cys Met Gly Asn Cys Cys Lys Val Tyr Glu Gly Cys Tyr
53 65 70 75 80
54 Thr Gly Gly Tyr Ser Arg Met Gly Glu Cys Ala Arg Asn Cys Pro Gly
55 85 90 95

```

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56 Phe Lys Arg Pro Thr Pro Gly Phe Arg Pro Arg His Gly Leu Glu Asn
57           100           105           110
58 Gly Thr Glu Pro Gly Pro
59           115
61 <210> SEQ ID NO: 3
62 <211> LENGTH: 56
63 <212> TYPE: PRT
64 <213> ORGANISM: Bos taurus
66 <400> SEQUENCE: 3
67 Pro Pro Asp Leu Cys Gln Leu Pro Gln Ala Arg Gly Pro Cys Lys Ala
68 1           5           10           15
69 Ala Leu Leu Arg Tyr Phe Tyr Asn Ser Thr Ser Asn Ala Cys Glu Pro
70           20           25           30
71 Phe Thr Tyr Gly Gly Cys Gln Gly Asn Asn Asx Asn Phe Glu Thr Thr
72           35           40           45
73 Glu Met Cys Leu Arg Ile Cys Glu
74           50           55
76 <210> SEQ ID NO: 4
77 <211> LENGTH: 56
78 <212> TYPE: PRT
79 <213> ORGANISM: Rattus norvegicus
81 <400> SEQUENCE: 4
82 Lys Pro Asp Phe Cys Phe Leu Glu Glu Asp Pro Gly Ile Cys Arg Gly
83 1           5           10           15
84 Phe Met Thr Arg Tyr Phe Tyr Asn Asn Gln Ser Lys Gln Cys Glu Gln
85           20           25           30
86 Phe Lys Tyr Gly Gly Cys Leu Gly Asn Ser Asn Asn Phe Glu Thr Leu
87           35           40           45
88 Glu Glu Cys Arg Asn Thr Cys Glu
89           50           55
91 <210> SEQ ID NO: 5
92 <211> LENGTH: 56
93 <212> TYPE: PRT
94 <213> ORGANISM: Bos taurus
96 <400> SEQUENCE: 5
97 Arg Pro Asp Phe Cys Leu Glu Pro Pro Tyr Thr Gly Pro Cys Lys Ala
98 1           5           10           15
99 Arg Ile Ile Arg Tyr Phe Tyr Asn Ala Lys Ala Gly Leu Cys Gln Thr
100           20           25           30
101 Phe Val Tyr Gly Gly Cys Arg Ala Lys Arg Asn Asn Phe Lys Ser Ala
102           35           40           45
103 Glu Asp Cys Met Arg Thr Cys Gly
104           50           55
106 <210> SEQ ID NO: 6
107 <211> LENGTH: 60
108 <212> TYPE: PRT
109 <213> ORGANISM: Ornithodoros moubata
111 <400> SEQUENCE: 6
112 Tyr Asn Arg Leu Cys Ile Lys Pro Arg Asp Trp Ile Asp Glu Cys Asp

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```

113 1          5          10          15
114 Ser Asn Glu Gly Gly Glu Arg Ala Tyr Phe Arg Asn Gly Lys Gly Gly
115          20          25          30
116 Cys Asp Ser Phe Trp Ile Cys Pro Glu Asp His Thr Gly Ala Asp Tyr
117          35          40          45
118 Tyr Ser Ser Tyr Arg Asp Cys Phe Asn Ala Cys Ile
119          50          55          60

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121 &lt;210&gt; SEQ ID NO: 7

122 &lt;211&gt; LENGTH: 51

123 &lt;212&gt; TYPE: PRT

124 &lt;213&gt; ORGANISM: Ornithodoros moubata

126 &lt;400&gt; SEQUENCE: 7

127 Leu Asn Val Leu Cys Asn Asn Pro His Thr Ala Asp Cys Asn Asn Asp

128 1 5 10 15

129 Ala Gln Val Asp Arg Tyr Phe Arg Glu Gly Thr Thr Cys Leu Met Ser

130 20 25 30

131 Pro Ala Cys Thr Ser Glu Gly Tyr Ala Ser Gln His Glu Cys Gln Gln

132 35 40 45

133 Ala Cys Phe

134 50

136 &lt;210&gt; SEQ ID NO: 8

137 &lt;211&gt; LENGTH: 54

138 &lt;212&gt; TYPE: PRT

139 &lt;213&gt; ORGANISM: Ornithodoros moubata

141 &lt;400&gt; SEQUENCE: 8

142 Met His Ser Ser Cys Leu Gly Asp Pro Pro Thr Ser Cys Ala Glu Gly

143 1 5 10 15

144 Thr Asp Ile Thr Tyr Tyr Asp Ser Asp Ser Lys Thr Cys Lys Val Leu

145 20 25 30

146 Ala Ala Ser Cys Pro Ser Gly Glu Asn Thr Phe Glu Ser Glu Val Glu

147 35 40 45

148 Cys Gln Val Ala Cys Gly

149 50

151 &lt;210&gt; SEQ ID NO: 9

152 &lt;211&gt; LENGTH: 18

153 &lt;212&gt; TYPE: DNA

154 &lt;213&gt; ORGANISM: Artificial Sequence

156 &lt;220&gt; FEATURE:

157 &lt;223&gt; OTHER INFORMATION: PCR Primer

159 &lt;400&gt; SEQUENCE: 9

160 gcaggagctc ggcaagag

18

162 &lt;210&gt; SEQ ID NO: 10

163 &lt;211&gt; LENGTH: 29

164 &lt;212&gt; TYPE: DNA

165 &lt;213&gt; ORGANISM: Artificial Sequence

167 &lt;220&gt; FEATURE:

168 &lt;223&gt; OTHER INFORMATION: PCR Primer

170 &lt;400&gt; SEQUENCE: 10

171 tatggatccc aggtccaggc tctgttccg

29

VERIFICATION SUMMARY

DATE: 02/08/2002

PATENT APPLICATION: US/10/031,685

TIME: 11:54:06

Input Set : A:\2488-1-002 SEQLIST.TXT

Output Set: N:\CRF3\02082002\J031685.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

~~SECRET~~